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Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

WYOMING

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

AS OF

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS.

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge River Forecast Center U. S. Weather Bureau 712 Federal Office Building Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate Rivef District Office, listed below:

Meteorologist in Charge......Yellowstone River Weather Bureau Airport Station and tributaries Box 1338
Billings, Montana

State of Wyoming

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOLING

Issued May 9, 1955

Report Prepared
by
George W. Peak
Snow Survey Leader

Soil Conservation Service and State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins State Conservationist Soil Conservation Service L. C. Bishop State Engineer of Wyoming Cheyenne, Wyoming

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PRELININARY WATER SUPPLY OUTLOOK FOR WYOMING

May 1, 1955

In general the water supply prospect for the State of Wyoming is less than that for the April 1, forecast. Precipitation during April was far below normal as indicated by the May 1, survey of the accumulation in the snow pack. The first duty of snow melt is to bring the soil to field capacity and the amount of water required for this function each spring, is withheld from the creeks and rivers. Last fall, the soil storage was below normal as winter came on, so this above normal deficit will take the first melted snow water.

Reservoir storage for May 1, is at 76 percent of the 1943-1952 normal for this date, indicating that the total amount of runoff and storage will be about 70 percent of the 1943-1952 average and less than the supply for the 1954 season.

NORTH PLATTE BASIN

The May 1, snow pack on the North Platte above Seminoe is 73 percent of the average snow cover for this date. The runoff is expected to be 500,000 acre-feet at Saratoga, 79,000 at Hanna and 56,000 from the Sweetwater for a total of 635,000, or 69 percent of the 1943-1952 average. May 1, active storage on the North Platte in Wyoming totals 865,000 acre-feet, or 68 percent of normal.

GREEN RIVER BASIN

The snow pack in the Upper Green River Basin in Wyoming dropped to 75 percent of normal, however, very little snow remains on the lower elevation areas. The April 1, - September 30, runoff for this basin is expected to be 750,000 acre-feet, or 50 percent of the ten year average.

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PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING (Con't.)

May 1, 1955

SNAKE RIVER BASIN

Precipitation, during April, was very close to normal in the Snake River Basin above Moran. The expected runoff from this area remains the same as the April 1, forecast which was 770,000 acrefect for the April 1, - September 30, discharge into Jackson Lake. This figure is 84 percent of the 1943-1952 average runoff of 918,000.

Storage in Jackson Lake is 503,000 acre-feet, as compared to an average of 520,000.

The discharge of the entire Snake River Basin in Wyoming is expected to be 3,300,000 at Heise, Idaho, or 79 percent of the ten year average.

LOWER YELLOWSTONE BASIN

Snow cover in the Wind River above Riverton is 89 percent of normal. Below normal temperatures during April have held up the snow melt and the soil recharge in this area, therefore the existing soil moisture deficit and the expected heavy diversions above Riverton, to make up for the light April precipitation, will reduce the discharge at this station to about 47 percent of normal.

The same conditions exist on the Popo Agie water shed. The snow cover is standing at 88 percent with an expected harvest of 280,000 acre-feet at Riverton, or about 70 percent of the normal runoff.

Boysen and Buffalo Bill reservoirs are standing at 93 percent and 43 percent of their respective ten year averages. The April 1, - September 30, discharge into Boysen is estimated to be 645,000 at 60 percent, and the Shoshone forecast is 560,000 acrefeet, or 70 percent of the 1943-1952, average.

THE POWDER AND TONGUE RIVER BASINS

The flow from the Big Horn Mountains is expected to range from 85 percent at Buffalo, to 93 percent for the Powder at Arvada and an estimated 100 percent for the Tongue at Dayton. The mountain soil in these areas is believed to be close to field capacity, requiring little more of the existing snow pack.

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INDEX TO WYOMING SNOW COURSES

			=	ocation								_	ocation				
rainage Basin and Course Name	Number	Elev.	Lat.	Twp.	Range Long.	Record	Measuring Dates ^a	By 5 b	Drainage Basin and Course Name	Wy oming Number	Elev.	Sec. Lat.	Twp,	Range Long,	Record	Measuring Dates	Moa B:
		W.	ISSOURI	RIVER I	RAINAGE						cor	LORADO	RIVER DR	AI NAGE			
TELLOWSTONE			0		070	1070			GREEN RIVER		(20.00	7.0	70.11	10lw	107/	1.5	
Canyon Lake Camp Lodgepole Lupine Creek	10E3 10E4 9E1 10E1	7750 7850 8200 7300	141°144 141°34 32 141°51	56N	110°30° 110°24° 106% 110°37°	1938 1937 1940 1938	1,2,3,4,5 1,2,3,4,5 4,5 1,2,3,4,5	1 1,4 2	Dutch Joe R.S, Mulligen Perk Kendall R,S. Loomis Park Snyder Basin R.S. Piney-LaBarge	9G5 9G1 10F15 10F16 10G9 10G10	87 00 89 00 79 00 85 00 80 40 88 20	32 17 23 14 15 19	37 N 35N 38N 37N 29N 29N	108W 110W 111W 111W	1936 1936 1936 1936 1937 1937	4,5 3,4,5 3,4,5 4,5 4,5	4444
Brooks Lake #3 Burroughs Creek	10F8 9F4	9200 8800	23 15	144 N	110W 107W	1939 1948	2,3,4,5	<u>4</u>	East Rim Divide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	4
inwoodie ry Creek	9F10 9F9	9500 9750	34	38N 4N	105W	1948	2,3,4,5	4	aver prop pages (.h I1			RIVER DR	AINAGE			
OuNoir Joyser Cresk Little Warm	9F6 9F7 9F8	8750 8500 9500	27 12 21,	42N 41N 41N	108W 108W 108W	1940 1948 1948	2,3,4,5 2,3,4,5 2,3,4,5	1. 1.	SNARE RIVER BASIN (A	10F1	6850	3	46n	113W	1919	1,2,3,4	5
Sheridan R.S.	9F5 9F3	7500 8000	3	42N 43N	109W 107W	1939 1940	2,3,4,5	4	Aster Creek Base Camp	10E8 10F2	7700 6900	Ĺ4.º17 20	46N	110°37'	1919 1947	1,2,3,4,5	5
Togwotee Pass	10F9	9600	29	ήίΝ	1100	1936	2,3,4	5	Coulter Creek Glade Creek	10E10 10E13	7600 7200	117 008	1	110°33'	1919 1919	1,2,3,4,5	5
POPO AGIE RIVER Blue Ridge	8G2	9500	23	31N	1017	1939	0.71.5	1	Huckleberry Divide Lewis Lake Divide	10E14 10E9 10Fh	7300 7900 6800	32 44°13		115W 110°40' 1114W	1919 1919 1919	1,2,3,4,5	5
Hobbs Park Mosquito Park R.S.	963 964	10000	22 23	2S 2S	3W 3W	1948 1940	2,3,4,5 2,3,4,5 2,3,4,5	1 14 14	Moren Moren Bay Snake River Station	10F3 10E12	6800 6780	17† 008	7 45N 45N	116# 110°40'	1919 1919 1919	1,2,3,4 1,2,3,4 1,2,3,4,5	5
Sawmill Glade South Pass	8G1 8G3	8500 9000	3	31N 30N	101W 101W	1939 1939	2,3,4,5	14	Thumb Divide	10E7	7900	111055		110°35'	1951	1,2,3,4	5
St. Lawrence R.S. Trout Creek	9F11 9G2	87'00 3000	26 5	1N 2S	7M 7M	1940 1948	2,3,4,5	4	JACKSON LAKE TO HEIS	SE.							
BIG HORN RIVER									Afton Ranger Sta. Blackrock	10GL 10F7	6200 8600	30 4	32N 144N	118W	1936 1936	1,2,3,4,5	1 5
Beavers Mill Dwl Creek	9F2 8F1	8900 8700	6 36	43 N 43 N	102W	1948 1948	2,3,4,5	1 ₊	Blind Bull Bryan Flat CCC Cemp	10G2 10F1/4 10G7	8750 6250 7500	6 9	38n 38n	115% 115% 118W	1948 1936 1936	3,4 1,2,3,4,5 1,2,3,4,5	4
ensleep R.S. imber Creek	7E7 9E2	8300 8800	30 25	19N 17N	86w 103w	1935	4,5	1,4 1,4	Cottonwood Lake Deadman Ranch	1007 1005 1001	7500 6534	25 28	31N 35N	118W 116W	1936 1936	3,4 1,2,3,4,5	1,1
anger Creek ood River	7E4 9F1	8800 8000	32 28	53 N 46 N	88% 1037	1935 1939	4,5 4,5 2,3,4,5	1 4	Four Mile Meadows Greys Boundary	10F6 10F18	7770 5800	35 33	45n 37n	112W 118W	1936 1936	2,3,4	5 1,L
ADISON RIVER									Gros Ventre Grover Park Divide	10F19 10G3	8750 7500	36 27	40N 33N	111W 118W	1948	3,4 1,2,3,4,5	1,1
forris Basin	10E2 10E7	7500 7900	141°55		110°42°	1936 1946	3,4 1,2,3,4,5	2	Poison Meadows Teton Pass #2 Togwotee Pass	10G6 10F13 10P9	8500 8500 9600	29 21, 29	30N 41K 44H	116W 118W 110W	1948 1936 1936	3,4 1,2,3,4 2,3,4,5	1 5
SHOSHONE RIVER		, ,,,,,	-24 65			2,40	4,-,,,4,7		Turpin Meadows Yellowjacket	10F9 10F5 10F10	6930 7675	14 33	45N 42N	112W	1936 1936	2,3,4	5
ylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2	Snow King Mount. #1 Snow King Mount. #2	10F11 10F12	7600 7200	4	тои Той	117W 117W	1949 1954	Semi. Mo. Semi. Mo.	4
tast Entrance	10E6	7000	17	52 N	109W	1948	1,2,3,4,5	2	HEISE TO AMERICAN P.	ALLS							
TONGUE RIVER	7E1	7900	36	56N	89 7 1	1950	3,4,5	4	Bechlar R.S. Grassy Lake	11E20 10E15	6400 7265	44,009	91 1,8N	111°03'	1936 1940	1,2,3,4,5 1,2,3,4,5	2
Dome Lake Big Goose	7E3 7E2	8800 7700	11	53N 53 N	87 ₩ 86 ल	1950 1935	3,4,5	<u>i</u>	BEAR RIVER								
POWDER RIVER									Salt River Summit	1008	7900						
Red Fork Sour Dough	7F1 7E6	7000 8500	18 17	43n 49n	85 % 8 L m	1936	4.5	<u>L</u> 1	Big Park Kelly R.S.	10011 10012	8700 8200	7 13	27 n 26 n	117# 118#	1951 1951	3,4 3,4	4
Soldier Park Muddy Pass	7E5 7E8	8700 9700	36 11	51 N 48 N	85W 85W	1936 1950 1950	4,5 3,4,5 3,4,5	1 1,4		I	NDEX TO	COLO	RADO SI	NOW COUR:	SES		
Torth Powder	7E9	8500	5	47 N	85 m	1951	3,4,5	4		-			RIVER I		_		
SWEE TWATER	- 1								NORTH PLATTE								
Grannier Meadows Larsen Creek	8գկ 9 G 6	9000 9000	19 12	30N 30N	100W 103W	1937 1949	2,3,4,5 2,3,4,5	<u>l</u> 4 <u>l</u> 4	Deadman Hill Roach	5J6 6J8	10200 9800	26 5	10N 10N	75π 77₩	1937 1940	3,4,5 2,3,4,5	L
NORTH PLATTE									MoIntyre Park View	5J15 6J2	9100 9200	35 24	10 N 5 N	76W	1949 1936	2,3,4,5	4
Bottle Creek Webber Spring	6 н 8 6 н 9	8200 9000	21. 27	11.N 14.N	85พ 85ส	1936 1936	2,3,4,5	1,4 1,4	Columbine Willow Cr. Pass	613 615	9300 9500	21	5N Lin	82 11 7847	1936 1938	2,3,4,5	
Old Battle North French Creek	6时0 6时	9800 10200	29 27	14n 16n	85W 80W	1936 1938	2,3,4,5	1,4 1,4	Northgate	637	8500	7	11 N	79₩	1950	2,3,4,5	
North Barrett Cr.#2 Ryan Park #2	6н5 6н6	8400 8400	30 34	16N 16N	80W 81W	1936 1936	2,3,4,5	1,4 1,4		INDE				SNOW COU	RSES		
Spring Cresk Albany LaBonte	6H7 6H11	9000 9400 8450	32 18	15N 14N	85₩ 78₩ 71₩	1949	2,3,4,5	1,4	CHEYENNE RIVER		MIS	SOURI I	RIVER DR	AI NACE			
Boxelder Casper Mountain	562 561 661	9000 8700	11 31 16	27 N 30N 32N	7144 7514 7971	1949 1950 1954	2,3,4,5 2,3,4,5 1,2,3,4,5	<u>ե</u> և և	Upper Spearfish	3E1	6500	21	3 N	1E	1944	2,3,4	1
ARAMIE RIVER		0,00)_i	7.711	27,54	-1-171417	4			TNDE*			COURCES			
rooklyn Lake	6H1	10200		16N	79W	1936	2,3,4,5	1,4					H SNOW	COURSES			
ox Park ibby Lodge #2 airpin Turn #2	6н12 6н3 6н2	9200 8700 9500	21 29 24	13 N 16 N 16 N	7871 7871 7971	1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5	1 1,4 1,4	eear river		001	-UMBIA	MIAEK DE	AL IMITE			
ROW CREEK									Head of Bear River	10J5	8600	15	2N	10E	1935	4	
ole Mountain #2	5E1	8700	35	15 N	72₹	1936	2,3,4,5	L.	Goodman Ranch Hayden Fork Monte Cristo, R.S. Girl Hollow	10J6 10J7 11H12 11H17	7900 9300 8960 8400	19 1 3 5	3n 1s 8n 7n	108 98 Le 58	1937 1951 1950 1951	4,5 3,4,5 3,4,5	
									Hole-in-the-Rook	10J1		JORADO :	RIVER DR 2N		1921	J.	
									Howinta Ranger Sta.		9500	33	2 N	15E 13E	1931 1930	4	

a. Mumerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerals refer to Agency that secures the snow survey, as follows:

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MYOMING DRAINAGE BASINS STREAMFLOW FORECASTS

May 1, 1955

			Flow in Thousands of Acre Fe Measured Runoff 1943 to				
BASIN AND TRIBUTARY	FOREC						
	April	% of	April - S		1952		
	September	Average	e 1953	1952	Average		
UPPER YELLOWSTONE IN YELLOWSTONE PAR	K						
MADISON RIVER West Yellowstone (near) YELLOWSTONE RIVER	180	84%	207	248	216		
Corwin Springs (at) CLARK FORK RIVER	1610	80%	1649	2171	2012		
Chance (at)	408	65%	519	576	629		
SNAKE RIVER BASIN							
SNAKE RIVER Moran (below) Heise, Idaho (near)	770 3300	81% 79%	806	993 4363	918 4174		
LOWER YELLOWSTONE BASIN							
MIND RIVER							
Riverton (at)	270	47%	239	-354	575		
BIGHORN RIVER							
Boysen Reservoir (below)	645	60%	611	884	1079		
Kane (at)	820	54%	798	1276	1518		
St. Xavier (near)	1375	60%		1286	2290		
BULL LAKE CREEK Lenor (near)	160	80%	160	203	200		
POPO AGIE RIVER Riverton (near) GREYBULL RIVER	280	70%	218	450	400		
Meeteetse (at)	130	56%	157	278	233		
Basin (near)	39	34%	37	173	116		
SHOSHONE RIVER Buffalo Bill Dam (below) Byron (at)	560 377	70% 60%	582 356	695 484	802 628		
TONGUE RIVER	חחר'	3,000	06	7.01	774		
Dayton (near) Acme (near)	115 247	100% 90%	96 200	10կ 239	115 274		
•	25 <u>1</u>	90%	200 ***	249	282		
Decker, Montana (near)	L)4	70,0		24/	202		

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WYOMING DRAINAGE BASINS STREAMFLOW FORECASTS (Continued) MAY 1, 1955

BASIN AND TRIBUTARY	Seasonal S			housands of d Runoff	Acre Feet 1943 to
	April	% of	April -	September	1952
	September	Avera	ge 1953	1952	Average
POWDER RIVER	3.50	0.50	7.0	7.05	3.47
Arvada (at) Moorhead, Montana (at)	132 205	93% 72%	76	125 235	143 285
Locate, Lontana (at)	265	73%	ÇZZ GIR	303	361
CLEAR CREEK					
Buffalo (near)	34	85%	27	35	40
Arvada (near)	101	80%	72	100	126
NORTH PLATTE BASIN					
SWEETWATER RIVER					
Alcova (at)	56	65%	42	100	86
NORTH PLATTE RIVER					
Saratoga (at) MEDICINE BOW	500	70%	428	1053	718
Hanna (near)	79	68%	60	144	116
LARAMIE		·			
Jelm (at)	65	64%	64	124	101
Lookout (at)	49	55%	28	96	89
UPPER COLORADO BASIN					
GREEN RIVER					
Linwood (at)	750	50%	1669	1651	1490
GREAT BASIN					
BIAR RIVER			2		
Evanston, Wyo. (near)	95	59%	113	268	161
Harer, Idaho (at)	155 80	45%	184 99	487 126	345 122
Smith's Fork, Border (near)	80	66%	33	120	122

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COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS
Summary of Snow Survey Data by Watersheds as of May 1. 1955

Summary of Snow Surv				
	NO. OF	YEARS 1955		R EXPRESSED
BASIN	COURSES	OF	AS PERCEN	
	AVERAGED	RECORD 1954	1953	Average
Snake River Basin in Myoming	8	3-9 95%	127%	101%
Upper Yellowstone in Yellowstone Pa	ark 3	7-10 113%	123%	144%
Madison River in Yellowstone Park	2	4-21 182%	145%	235%
Lower Yellowstone - Shoshone River	1	14		115%
Lower Yellowstone - Clark Fork	1	17 78%	81%	103%
Lower Yellowstone - Wind River	14	6-19 83%	93%	89%
Lower Yellowstone - Popo Agie River	. 6	6-19 89%	126%	88%
Lower Yellowstone - Owl Creek	2	6-6 67%	44%	69%
Lower Yellowstone - Greybull River	2	4-15 79%	66%	56%
Lower Yellowstone - Tongue River	3	5-18 105%	61%	105%
Lower Yellowstone - Shell Creek	2	6-18 109%	88%	119%
Lower Yellowstone - Nowood Creek	3	5-19 144%	108%	130%
Lower Yellowstone - Clear Creek on Powder River	the 2	4-18 96%	83%	93%
Lower Yellowstone - Crazy Moman Cre on the Powder Riv		3-18 125%	97%	114%
North Platte above Seminoe Reservoi	ir 14	5-19 127%	86%	73%
North Platte - Sweetwater River	3	5-18 88%	145%	80%
Laramie River Basin	9	6-19 116%	78%	64%
Pole Mountain	1	18	Mari	eate sed:
North Laramie Mountains	2	5-6 42%	75%	113%
Upper Colorado - Green River	8	3-19 85%	76%	75%

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WYOMING SNOW SURVEYS, MAY 1, 1955

				SNOW	COVER MEA	SUREME	NTS		
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DRAINAGE BASIN			Date	Snow	Water				cers
AND			of	Depth	Content V	later C	ontent(In.)	of
SNOW COURSE	STATE	ELEV.	Surve	y(In.)	(In.)	1954	1953	Ave.R	Record
		diameter w baseparpilitation							
SNAKE RIVER BASIN I	N WYOMI	NG							
Lewis Lake Divide	Wyo.	7900	4/29	105	40.8	49.0	41.2	44.9	3
CCC Camp	Wyo.	7500	4/29	22	7,5	2.7	2.4	4.7	5
East Rim Divide	Wyo.	7950	4/28	25	8.2	10.7	11.3	10.9	9
Grassy Lake	Wyo.	7265	4/29	87	36.4	30.5	NR	23.1	12
Grover Park Divide	Wyo.	7500	5/2	24	7. 8	3,1	4.6	4.7	5
Snow King Mountain	_	7600	5/2	29	7.8	10.6	7,5	10.5	4
Teton Pass No. 2	wyo.	8500	4/29	96	35,2		39.0	40.7	6
Togwotee Pass	Wyo.	9600	4/29	84	30.6	37,0	31.7	33.8	6
UPPER YELLOWSTONE I	N YELLO	WSTONE P	ARK						
Canyon	Wyo.	7750	4/28	45	14.5	NR	NR	11.6	6
Cooke City	Mont.	7400	4/30	18	6.6	5.2	5.4	5.0	10
Lake Camp	Wyo.	7850	4/30	28	8.7	8.1	6.5	7.7	9
Lupine Creek	Wyo.	7300	4/30	26	10.5	9.5	9.0	5.2	7
Euro of ook	nyo e	7000	1,00	20	1000	0.0	0.0	0.2	•
LOWER YELLOWSTONE -	· SHOSHO	NE RIVER	•						
Sylvan Pass	Wyro.	7100	4/30	25	9.0	NR	NR	7.8	14
MADISON RIVER IN YE	CLLOWSTO	NE PARK							
Norris Basin	Wyo.	7500	5/2	26	8.3	6.3	m ==	3.4	4
West Yellowstone	Mont.	6700	4/28	22	8.4	2.8	5.8	3.7	21
11000 10110110110	110110	0.00	1/20	22	0 4 2	240			~-
LOWER YELLOWSTONE -	· WIND R	IVER							
Brooks Lake	Wyo.	9200	4/23	69	27.9	32,3	28.6	25.8	19
Burroughs Creek	Wyo.	8800	4/26	29	9.4	16,7	17.0	16.4	6
Dinwoody	Wyo.	10000	4/22	38	11.9	16.9	14.9	15.5	6
Dry Creek	Wyo.	9500	4/22	21	5.7	8.6	9.4	8.3	6
DuNoir	wyo.	8750	4/25	21	6.8	8.3	6.3	6.9	13
Geyser Creek	Wyo.	8500	4/25	22	7.1	6.5	5.8	5.4	6
Hobbs Park	Wyo.	10000	4/29	53	19.0	22,6	11.9	23.1	6
Little Warm	Wyo	9500	4/25	61	19.2	23 ,3	19.0	21.9	6
Mosquito R. S.	Wyo.	9500	4/29	22	8.0	7.4	7.7	7.1	9
St. Lawrence R. S.	Wyo.	9000	4/30	20	6.8	5.4	5.1	7.4	11
Sheridan R. S.	Wyo.	7500	4/23	11	4.7	4.6	5.8	2.4	14
T-Cross Ranch	Wyo.	8000	4/26	8	2.7	5.8	5.5	3.9	13
Togwotee Pass	Wyo.	9600	4/29	84	30.6	37.0	31.7	33.8	6
Trout Creek	Wyo.	8400	4/29	2	0.8	0.0	4.7	2.4	6
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WYOMING SNOW SURVEYS, MAY 1, 1955

			SNOW COVER MEASUREMENTS							
				1959		Past Record				
DRAINAGE BASIN			Date	Snow Wa				_	ears	
AND	~	~.	of	Depth Co					of	
SNOW COURSE	State	Elev.	Surve	y (In.)	(In.)	1954	1953	Ave.h	ecord	
LOWER YELLOWSTONE	- POPO A	GIE RIVE	R							
Blue Ridge	Wyo.	9500	5/1	28	11.0	12.3	9.3	12.4	15	
Grannier Meadows	Wyo.	9000	5/1	35	13.1	16.0	9.7	14.0	18	
Hobbs Park	wyo.	10000	4/29	53	19.0	22.6	11.9	23.1	6	
Mosquito R. S.	Wyo.	9500	4/29	22	8.0	7.4	7.7	7.1	9	
Sawmill Glade	Wyo	8500	5/1	8	3.2	2.0	5.6	6.8	15	
South Pass	Wyo.	9000	5/1	37	14.0	16.8	10.2	14.0	15	
	, • •		o, _	J,	2,40		200			
LOWER YELLOWSTONE	- OWL CR	EEK								
Beavers Mill	Wyo.	8900	5/4	20	5.1	8.7	14.3	8.0	6	
Owl Creek	Wyo.	8700	5/4	20	5.8	7.6	10.4	7.7	6	
	V		,		·					
LOWER YELLOWSTONE	- GREYBU	LL RIVER								
Timber Creek	Wyo.	8800	4/30	9	2.7	3.1	NR	5.1	4	
Wood River	Wyo.	8000	5/1	7	2.3	3.2	3.5	3.9	15	
	o -		,							
LOWER YELLOWSTONE	- CLARK'	S FORK								
Lodge Pole	wyo.	8200	4/30	28	9.2	11.8	11.3	8.9	17	
3			-/				•			
LOWER YELLOWS TONE	- TONGUE	RIVER								
Big Goose	Wyo.	7700	5/3	7	2.6	1.1	5.9	2.8	18	
Dome Lake	Wyo.	8800	5/2	24	7.9	8,9	11.2	7.2	6	
Dono Lake	viy 3 a	0000	0/2	ņτ	1 40	0 90	1140	1 92	O	
LOWER YELLOWS TONE	- SHELL	CREEK								
Dome Lake*	Wyo.	8800	5/2	24	7.9	8.9	11.2	7.2	6	
Ranger Creek	Wyo.	8800	4/29	29	8.3	5.9	7.3	6.4	18	
3			-7		•					

^{*} Adjacent Basin

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WYOMING SNOW SURVEYS, MAY 1, 1955

			SNOW COVER MEASUREMENTS							
				1955		Pa	st Reco	rd		
DRAINAGE BASIN			Date		Water				ears	
AND			$\circ f$		Content				of	
SNOW COURSE	STATE	ELEV.	Surve	y(In.)	(In.)	1954	1953	Ave.R	ecord	
LOWER YELLOWSTONE -	NOWOOD	CREEK								
Muddy Pass	Wyo.	9700	4/30	33	9.5	7.8	10.0	8.3	5	
Ranger Creek*	Wyo.	8800	4/29	29	8.3	5.9	7.3	6.4	18	
Tensleep	Wyo.	8300	4/29	19	7.1	3.6	5.8	4.4	19	
*			,				-	·		
LOWER YELLOWSTONE -	CLEAR	CREEK ON	THE P	OWDER I	RIVER					
Soldier Park	Wyo.	8700	5/5	12	4.5	3.6	3.8	4.3	4	
Sour Dough	Wyo.	8500	4/29	17	4.2	5.5	6.7	5.1	18	
LOWER YELLOWSTONE -	CRAZY	MONTAN CR	TEV ON	ਹਵ ਤੁਸਾਹ	NUTER RIVE	יפו				
DOMPIC TIPIDIOMOTOTOM	OILAZI	WOTILITY OIL	EEK ON	11110 1	AND THE TELL A	I. No. Romando				
Muddy Pass	Wyo.	9700	4/30	33	9.5	7.8	10.0	8.3	5	
North Powder	Wyo.	8500	5/4	16	5,5	2.0	3.0	3.4	3	
Sour Dough	Wyo.	8500	4/29	17	4.2	5.5	6.7	5.1	18	
MADARIT DI LEGER LEGER	251 / 23 / 2	200-210	•:•							
NORTH PLATTE ABOVE	SEMINOS	RESERVO	IK							
Albany*	Wyo.	9400	4/30	10	4.1	2.0	10.4	11.3	6	
Bottle Creek**	Wyo.	8200	4/26	29	10.0	7.0	9.9	9.6	19	
Cameron Pass	Colo.	10300	4/28	44	16.9	17.5	21.8	23.7	19	
Columbine Lodge	Colo	9300	4/29	43	19.3	8.7	25.9	20.2	19	
Fox Park*	Wyo.	9200	4/29	0	0.0	0.0	1.8	5.2	19	
North Barrett Creek	Wyo.	9400	$\frac{4}{25}$	48	16.9	14.9	13.7	21.2	19	
North Gate	Colo.	8500	4/29	0	0.0	0.0	1.8	2.5	5	
North French Creek	Wyo.	10200	4/25	68	26.3	26.5	26.3	32.5	17	
Old Battle	Wyo.	9800	4/26	66	26.0	24.2	27.2	33.4		
Park View	Colo.	9200	4/29	7	1 _e 5	0.8	6.6	7.0	19	
Ryan Park	Wyo.	8400	4/25	21	7.7	3.2	3.9	7.1	19	
Spring Creek**	Wyo.	9000	4/26	33	12.8	8.2	12.2	15.4	6	
Webber Spring**	Wyo.	9000	4/26	35	13.0	9.0	13.7	16.8	19	
Willow Creek Pass*	Colo.	9300	4/29	17	4.2	2.7	8.3	12.6	17	

^{*} Adjacent Basin
** Geological Survey Elevation

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WYOMING SNOW SURVEYS, MAY 1, 1955

	SHOW COVER MEASUREMENTS									
				1955						
DRAINAGE BASIN			Date		Water		00 11000		ears	
AND			of		Content A	later C	ontent(In.)		
SNOW COURSE	STATE	ELEV.	Surve	y(In.)	(In.)	1954	1953	Ave.R	ecord	
NORTH PLATTE - SWEE	RIVER									
Grannier Meadows	Wyo.	8800	5/1	35	13.1	16.0	9.7	14.0	18	
Larson Creek	Wyo.	9000	4/24	4	1.7	0.0	0.0	8.2	5	
South Pass	Wyo.	9040	5/1	37	14.0	16.8	10.2	14.0	15	
			·							
NORTH PLATTE - LARA	NORTH PLATTE - LARANIE RIVER									
Albany	Wyo.	9400	4/30	10	4.1	2.0	10.4	11.3	6	
Brooklyn Lake	Wyo.	10200	4/30	44	17.5	18.0	27.0	25.4	19	
Deadman Hill	Colo.	10200	4/29	41	14.6	11.2	12.8	16.7	16	
Fox Park	Wyo.	9200	4/29	0	0.0	0.0	1.8	5.2	19	
Hairpin Turn	dyo.	9500	4/29	22	6.7	6.5	11.7	11.4	19	
Libby Lodge	Wyo.	8700	4/29	11	3.6	1.5	8.5	6.0	19	
Motntryre	Colo.		5/1	21	6.1	4,4	NS	8.8	6	
Pole Mountain #2*	Wyo.	8700	5/2	0	0.0	0.4	0.0	2.1	18	
Roach	Colo.	9800	4/30	45	16.4	15.7	15.9	20.4	14	
NORTH PLATTE - POLI	e mounta	IN								
Pole Mountain	Wyo.	8700	5/2	0	0.0	0.4	0.0	2.1	18	
NORTH PLATTE - NORT	TH LARAN	IE MOUN	TA INS							
Box Elder	Wyo.	9000	4/28	19	6.2	1.4	8.3	5.5	5	
UPPER COLORADO - GI	UPPER COLORADO - GREEN RIVER									
Big Park	Wyo.	8700	4/30	53	18.3	19.4	16.7	21.6	3	
Dutch Joe	Wyo,	8700	4/24	5	1,9	0.9	0.6	4.0	18	
East Rim Divide	Wyo.	7950	4/28	25	8.1	10.7	11.3	10.9	9	
Kendall R. S.	Wyo	7900	4/23	9	3.4	2.2	6.8	6.0	19	
Loomis Park	Wyo.	8500	4/28	35	12.8	17.3	15.1	11.5	19	
Mulligan Park	Wyo.	8900	4/26	20	6.0	8.5	6.5	6.9	19	
Piney LaBarge	Wyo.	8820	4/28	26	9.3	7.9	14.7	14.2	19 19	
Snyder Basin R. S.	Wyo.	8040	4/28	9	2.9	6.5	10.7	8.7	13	

^{*} Adjacent Basin

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STATUS OF RESERVOIR STORAGE WYOMING AND SOUTH DAKOTA MAY 1, 1955

BASIN		USABLE		E STORAC	E - 1000	s ACRE F		
and		CAPACITY					10 yr. Av	
STREAM	RESERVOIR	1000 AF	1955	1954	1953	1952	1943-52**	(*
Snake River	Jackson	847.0	503	450	485	406	520.5	
North Platte	Seminoe*	957.0	309.1	265.9	557.3	625.3	471.2	
North Platte	Pathfinder*	1011.0	508.2		894.5	1017.4	618,1	
North Platte	Alcova**	190.5	21.6	186.9	180.0	185.2	147.4	
North Platte	Guernsey	39.8	25.8	38.8	17.5	49.7	29.8	
North Platte	Southerland	185.0	50.0	45	64	ess 400	43.3	
North Platte	Kingsley	1995.0	1232.0	1590	1826	609 ONE	1397	
North Platte	Lake Alice &						•	
	Minatare	67.0	39.0	37.4	60.0	55.4	55.0	
Kansas Basin	Box Butte	31.6		20.5	24.3	30.8	25.2	
Kansas Basin	Bonny	39.9	40.1	39.2	30.5	29.6	17.1	
Kansas Basin	Swanson Lake	116.1	45.0	25.1			_,	
Kansas Basin	Enders	36.0	42.8	34.4	26.1	28.3	19.9.	
Kansas Basin	Harry Strunk	33.9	37.8	30.2	32.6	32.0	27.4	
Kansas Basin	Harlan County		195.1	64.9	2-0-1	2-00	-10-	
Kansas Basin	Cedar Bluff	176.8	95.4	100.3	113.9	143.3	72.0	
		_, _, _	// 4	20003		-4292	, = 0	
Laramie River	Wheatland	95.0	1.5	12.2	32,5	76.9	44.9	
Belle Fourche	Belle Fourche	185.2	101.7	136.4	76.6	143.4	146.2	
Shoshone River	Buffalo Bill	439.8	119.3	156.lı	164.7	233.7	278.6	
Wind River	Boysen	758.0	216.1	360.3	455.4	233.4	233.4	
Wind River	Pilot Butte	31.6	29.4	25.3	29.4	19.1	20.5	
Wind River	Bull Lake	152.0	61.1	62.3	51.0	33.9	51.5	
					7240	2207	2-67	
Cheyenne River	Angostura	92.0	89.8	34.2	46.2	33.6	33,6	
Cheyenne River		15.1	12.1	15.1	13.9	15.1	14.2	
Cheyenne River		190.3	32.1	8.4	11.8	0.5	0.5	
Grand River	Shadehill	84.0	79.7	83.3	83.4	118.8	118.8	
		- 40	17 # (U = 0	O7#4	11000	TTO 0	
Green River	Big Sandy	38.3	12.8	11.1				

^{*}Seminoe, January 1943, August 1953, Usable Capacity 993,200 Acre Feet.

*Pathfinder, January 1943, August 1953, Usable Capacity 1,040,500 Acre Feet.

**Alcova, downstream from Seminoe and Pathfinder and containing 166,000 Acre Feet of inactive storage that is unavailable to the Kendrick Project.

***Some for Less.

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VALLEY PRECIPITATION

In Percent of Normal

Basin	Jan.	Febr.	Mar.	Apr.
Wind River	25%	265%	75%	55%
Shoshone River	15%	195%	105%	50%
Big Horn River	25%	220%	75%	85%
Powder River	60%	170%	90%	100%
North Platte	100%	95%	105%	35%
Laramie River	90%	90%	85%	20%
Snake River	82%	86%	120%	99%

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The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

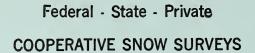
State Engineer of Wyoming

FEDERAL

- U. S. Department of Agriculture Forest Service
- V. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior Bureau of Reclamation National Park Service Geological Survey

PRIVATE

Wheatland Irrigation District



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"